



# Capability Statement

We are an acoustics, data, traffic and waste consulting firm. Our unique combination of services is fundamental to the success of any architectural or development project.



Acoustics



Data



Traffic



Waste



For over 30 years, TTM has been at the centre of the Australian development and infrastructure industry.



We're an acoustics, data, traffic and waste consulting firm. Our unique combination of services is fundamental to the success of any architectural or development project.

We put architects, developers and government authorities in the best position to achieve their project goals.

Our highly experienced team has strong local relationships and commercial insight. This is a distinct advantage in negotiating a favourable outcome for you.

**“TTM has added substantial value to our developments with considered analysis and clever engineering.”**

Peter Green – General Manager Development,  
Nielson Properties



## Acoustics

- Building and architectural acoustic design
- Noise and vibration impact assessments
- Acoustics testing
- Noise and vibration control
- Acoustic modelling
- Masterplanning
- Expert witness



## Data

- High volume video and tube count surveys
- Intersection and queue counts
- Traffic travel time surveys
- Survey data for modelling and transport network planning
- Origin destination surveys
- Drone surveys



## Traffic

- Development planning and design
- Development application reporting
- Construction traffic management
- Traffic signal design
- Road safety audits
- Network analysis and design



## Waste

- Waste systems and storage design
- Collection method and design
- Equipment advice and cost benefit analysis
- Operational waste management plans
- Regulatory advice and negotiation





## Acoustics

Our team will design acoustic solutions for virtually any development or infrastructure project.

Whether you're building new, repurposing an existing space or addressing a specific issue, we'll help you create the most appropriate acoustic environment for your project.

We will work with you to understand your project aspirations and priorities. We will then create the right acoustic solution to support the ambience, functionality and aesthetics of your space.

Our personable and collaborative approach allows you to make important project decisions with complete confidence. We will guide you throughout the entire process of your project – from due diligence to planning, design, construction and commissioning.

### Our services include:

Architectural and building acoustic design

Masterplanning

Noise and vibration monitoring

Development / planning applications

Acoustic modelling

Construction stage services

Construction noise and vibration management

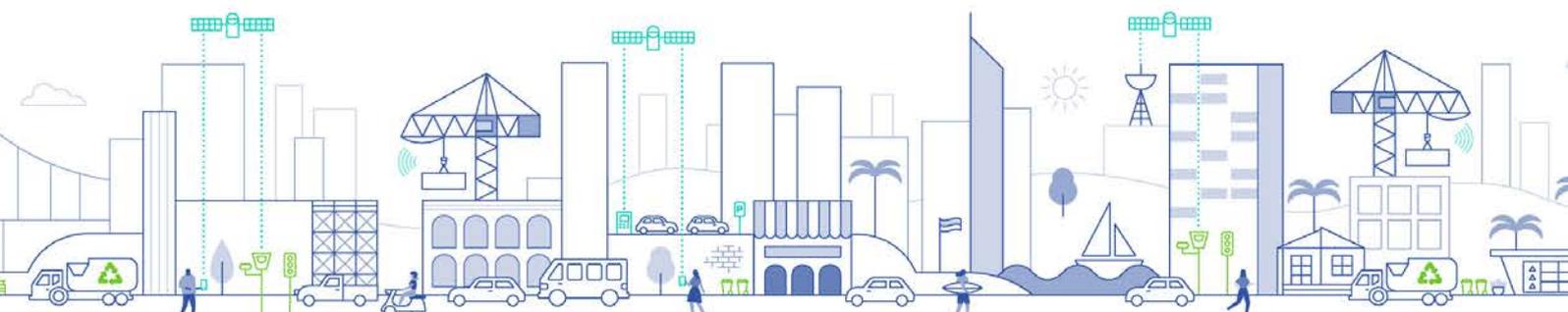
Compliance testing

Environmental noise assessments

Expert witness

### Our experience:

- Hillgrove Mine, Hillgrove (NSW) Environmental Impact Statement
- Froebel Early Learning Centre, Sydney (NSW) Design
- Jupiters Hotel & Casino, Gold Coast (QLD) Masterplan and stage 1 planning applications
- Scarborough Place, Kensington (VIC) Residential Design
- 550 Queen Street, Brisbane (QLD) Mixed-use development - design
- South Bank Parklands, Brisbane (QLD) Event Noise Management Plan
- Kingsgate 1, Brisbane (QLD) Commercial base build and fit-out
- Mater Children's Hospital, Brisbane (QLD) Repurpose refurbishment design
- iFLY Indoor Skydiving Centres, Sydney, Gold Coast, Perth - DA and design
- National Gallery of Australia, Canberra (ACT) Vibration advice for sensitive art
- Suite Hotel, Jupiter's Hotel & Casino, Gold Coast (QLD) Performance specification





## ACOUSTICS CASE STUDY Kingsgate, Acoustics Design



We were engaged to provide acoustic solutions for the fit-out of an open plan, activity-based workplace to reduce distraction and improve productivity.

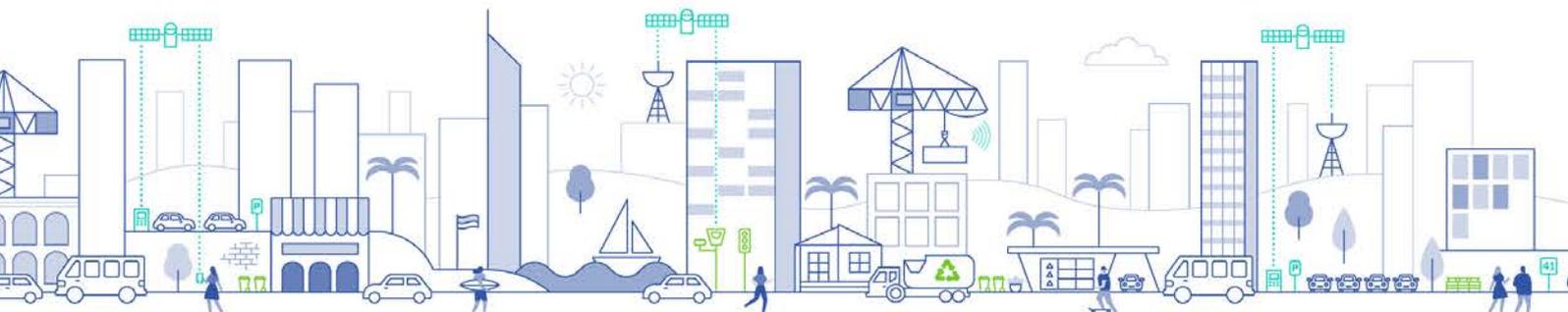
This commercial fit-out was particularly challenging because of its activity-based structure, where team members move between different areas of the office – or micro-environments – to work in the space which best suits the type of activity they’re undertaking.

As the project was targeting a six-star Green Star green building accreditation, it meant that acoustic treatments were required to meet specific acoustic performance criteria.

Floor-to-ceiling glass “pod” meeting and teleconference rooms, were designed with

secondary glazing to reduce noise spill into adjacent areas, improve speech privacy and reduce noise intrusion.

Acoustic treatments were implemented across the open floorplan to control noise transfer and create acoustic micro-environments to accommodate certain activities – whether for individual contemplation and work, casual group interaction, or formal meetings. Creating the most appropriate acoustic solution for each space was critical to reducing distraction, enhancing collaboration and improving overall productivity.



# Data

Our expert team can assist you with all aspects of traffic data, from survey design to data collection and analysis.

We use state-of-the-art survey technology and equipment to guarantee the most accurate and reliable data for infrastructure planning.

We've worked on some of the largest traffic survey projects across Australia, and have a reputation for expertise in developing a survey design consistent with the objectives of the study.

We work closely with project stakeholders, including government authorities, infrastructure alliances and consultants, to deliver high quality and verifiable traffic and transport data.

### Our services include:

Origin destination and parking surveys using Automatic Number-Plate Recognition cameras (ANPR)

Drone surveys

Video count surveys with automated analysis software

GPS travel time surveys

Parking demand and duration surveys

Passenger transport studies

Pneumatic tube counts

### Our experience:

- South East Queensland Validation Model (QLD) Data collection
- Brisbane Airport (QLD) Annual traffic counts 2006-2016
- East Parade / Graham Farmer Freeway Perth (WA) Origin destination survey
- Queens Lane, Port Phillip (VIC) Origin destination survey
- M5 Sydney (NSW) Origin destination survey
- Greater Sydney Screenline Study (NSW) Transurban
- South Road (VIC) Melbourne drone surveys
- Traffic Generation of Different Land Uses
  - Surveys conducted annually for Transport & Main Roads, Qld
  - Locations across South East and regional Queensland
- Penrith Origin-Destination Study (NSW) Count and queue surveys
- School Zone Before and After Surveys (QLD)
  - Speed surveys across South East Qld to gauge the impact of LED signage on driver behaviour in school zones
- Bicentennial Bikeway Surveys (QLD) Brisbane City





DATA CASE STUDY

# Brisbane Validation Model Study – TMR



We undertook traffic count assessments across a network of high speed and complex environments across Brisbane Metropolitan Region.

TMR required seven-day traffic counts at 19 screenlines (168 screenline points) across a variety of road types from local streets to controlled access motorways, many in restricted access locations.

The survey required simultaneous counts across a large number of sites. It was imperative the data was of high quality to ensure accuracy and reliability, with data continuity essential to meeting study objectives.

The limited timeframe for planning, organisation, survey and reporting tasks required high-level project management skills and experience.

Safety was addressed through planning and consultation with TTM’s Registered Professional Engineers.

Using specialised software to extract data, we eliminated the risk of human error and ensured consistency across all sites, which was fundamental to the ultimate application of the data.





# Traffic

We are Australia’s leading traffic engineers for developers and architects.

Our team has been responsible for traffic planning and design of some of Australia’s largest development and infrastructure projects.

We have the tools and skill-sets to deliver on projects of any scale and complexity.

We work with you throughout the entire process to provide practical advice – from due diligence, to planning, design, construction and completion of your project. This is pivotal to successful project delivery.

Our strong relationships with key contacts at all levels of government and the development sector are a distinct advantage in negotiating a favourable outcome for you.

## Our services include:

Development planning and design

Development application and reporting

Network analysis and design

Transport planning

Traffic systems planning and design

Road planning and design

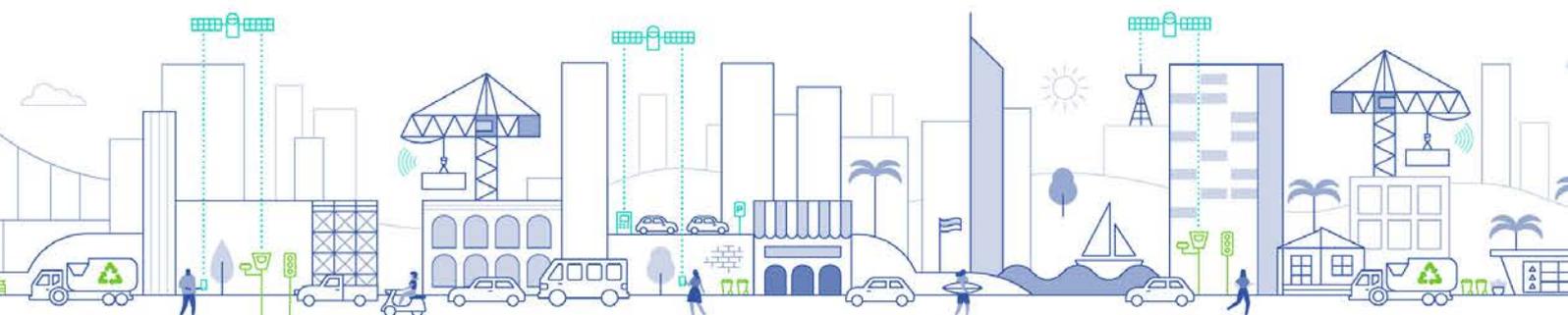
Traffic signal design

Road safety audits

Construction and event traffic management

## Our experience:

- RNA Redevelopment (QLD) Bowen Hills
- Willows Shopping Centre, Townsville (QLD)
- North-west Rail Link (NSW) Construction traffic management plan
- Gold Coast Rapid Transit (QLD) Road safety audits
- Bunnings developments, Australia-wide
- Robina Town Centre Expansion (QLD)
- Orion Shopping Centre Springfield (QLD)
- Queen’s Wharf, Brisbane (QLD) Integrated resort development
- 272 Normanby Road, Southbank (VIC) Development planning and design
- 443 Upper Heidelberg Road, Ivanhoe (VIC) Development planning and design
- Darling Square development Darling Harbour (NSW)
- Surry Hills Shopping Centre (NSW) Redevelopment





TRAFFIC CASE STUDY

# Darling Harbour – Darling Square Project



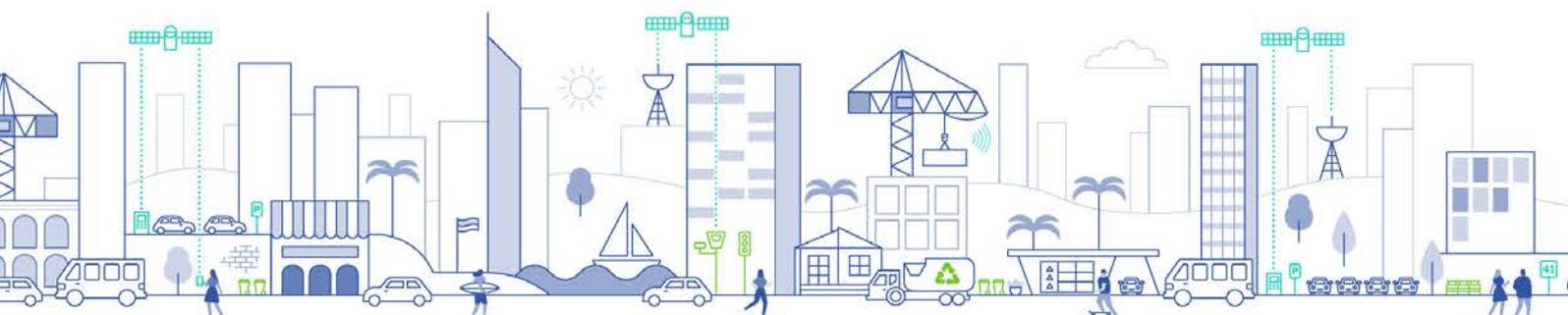
We were engaged to design vehicle and service access to support two new developments in a pedestrian-only, mixed-use public precinct.

The project involved two separate developments – a 580-apartment building with retail on the ground plane, and a mixed-use building with retail and markets, a library, childcare centre and restaurants. The two buildings are connected by an existing outdoor pedestrian square.

TTM engaged with key government stakeholders to determine the best way to maintain the square’s pedestrian appeal. This was critical to the design

of both developments. However, both buildings required vehicle access for services including the delivery and collection of supplies and refuse necessary in commercial and domestic developments.

We designed a purpose-built basement solution, providing central and convenient vehicle access to fully support the required services.





## Waste

We provide waste management advice and documentation for new and existing development projects. As local government authorities look for cheaper and more efficient ways to collect waste, the issue of how waste and recycling material is stored and presented for collection has become more prevalent. Lack of waste management planning may result in slowing down or even halting the progression of your development.

Through integration with our traffic and acoustics departments, we regularly provide real world solutions for projects ranging from small scale multi-unit dwellings to large scale residential, commercial and mixed-use precincts.

TTM Waste will advise you on compliant and efficient use of space and equipment.

TTM does not manufacture or sell equipment. All advice is based on the needs of the client first, with design and equipment recommendations considered to be the most efficient for your project.

“Our Aim” - to provide accurate information and solutions from the early stages of your development design process which will result in overall spatial, equipment and construction savings.

### Our services include:

Regulatory advice and negotiation

Waste system design and solutions

Management and operational plans

RFI documentation

Equipment cost benefit analysis

Procurement - review of waste services and equipment

### Our experience:

- South City Square, Woolloongabba (QLD)
- Wenty Leagues Club, Wentworth (NSW)
- Yeerongpilly Green, Yeerongpilly (QLD) mixed- use precinct development waste management
- 66 King Street, Sydney (NSW) Waste management plan
- 545 Queen Street, Brisbane (QLD) mixed-use development waste management
- 500 George St to 152 Roma St, Brisbane (QLD) mixed-use development for infill site including heritage buildings
- Beercroft Road, Epping (NSW) Waste management plan
- 333 Handford Road, Taigum (QLD) aged care development waste management
- Elizabeth Arcade, Brisbane (QLD) mixed-use and student accommodation development
- Queen’s Wharf, Brisbane (QLD) mixed-use precinct and casino development waste management
- 93 Forest Road, Hurstville (NSW) Waste management plan





WASTE CASE STUDY

# Yeerongpilly Green – Precinct Waste Management Project



We provided waste management analysis and design advice to support a multi-stage community development comprising a mixed-use residential, commercial and public precinct.

To maintain the ambience of the precinct, we introduced a strategy for centralised residential waste storage and collection. This allowed for the complete removal of on-street waste collection, and ensured the facilities were central and convenient for users, with minimal impact (odour, noise and refuse collection traffic) to the surrounding residents.

The two staged strategy required placement and design of a low cost temporary storage and collection facility. With the final precinct facility to be built as part of the latter stages, the temporary design incorporated the initial storage of mobile garbage bins with a transition to larger equipment for up to 500 units.

Additional planning and advice included volume reduction equipment for the commercial tenancies including pulping systems, glass crushers, and baling equipment.

Charitable organisations were also considered with early engagement of food recovery services and incorporating space clothing and item donation bins to be included in the central waste facilities (e.g. Lifeline bins).

Council was regularly consulted to ensure final design and operational waste management plans would be accepted.





## Contact us

We're here to assist you with your project. Give us a call anytime on 1300 123 087 or contact your nearest TTM office:

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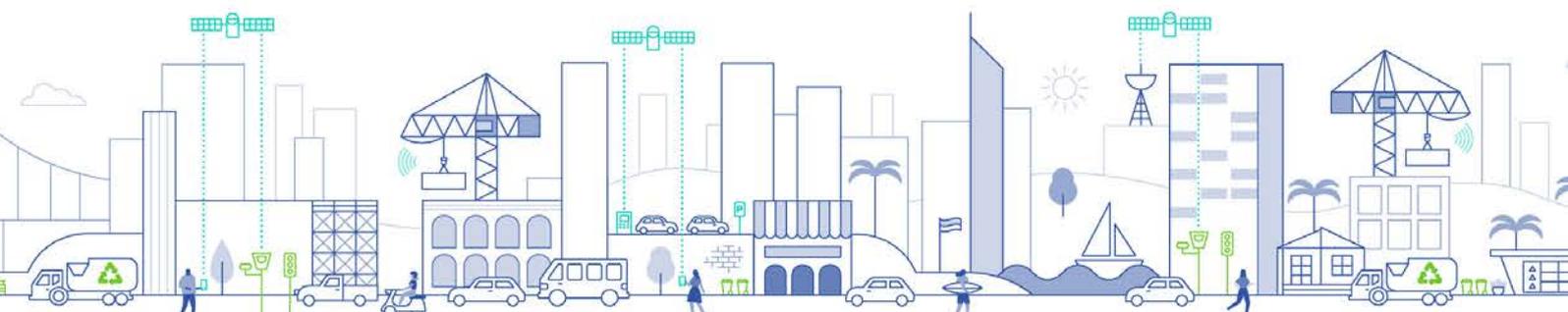
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**“We rely heavily on TTM’s experience and relationships with authorities to get timely feedback and approvals.”**

Nathan Andersen, Director Development,  
Core Property Partners



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